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2012 Wood Processor Report, Including Import and Export Information

Maine Department of Agriculture, Conservation and Forestry

Maine Forest Service

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2012 Wood Processor Report

Including Import and Export Information

Compiled from 2012 Wood Processor Reports
pursuant to 12 M.R.S. § 8884

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Department of Agriculture, Conservation and Forestry

Maine Forest Service

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What is the purpose of the Wood Processor Report?

Each year, the Maine Forest Service collects information from Maine primary wood processors regarding the volume of wood processed in Maine. Information is also collected for volumes imported into Maine or exported from Maine.

This report summarizes, for 2012, the volume of wood harvested in Maine, processed by Maine mills, and imported into or exported from Maine.

Wood flow data is summarized for sawlogs, pulpwood, biomass chips, other miscellaneous products, and imports and exports.

How was this information collected?

In 2012, the Maine Forest Service received wood processor reports from 126 primary processing mills (sawmills, pulp and paper mills), 37 portable sawmills, 93 firewood dealers, 32 loggers and brokers who may have exported wood, 23 concentration yards, and 6 mills that burn some form of wood for energy. Volume information contained in these individual reports is confidential and by law shall not be made public, except that summary reports may be published using aggregated data which does not reveal the activities of an individual person or firm (12 M.R.S. §8884, sub-§3, "Forest Landowner and Wood Processor Reporting Requirements").

Interpreting Harvest, Export, Import, and Processed by the Maine Forest Products Industry

Maine wood processed

wood that is harvested in Maine and used by a Maine primary processing facility.

Exported from Maine without processing

wood that is harvested in Maine and exported out of state without processing by a Maine mill.

Imported from out of state

wood that is imported from out of state (not harvested in Maine) and processed by a Maine mill.

Total processed by Maine Forest Products Industry

total volume of wood processed in Maine, regardless of origin.

Definitions and Notes

1. Biomass Chips:

produced in the woods by chipping the entire tree, including branches and tops. Usually used as energy fuel, they may also be suitable for sludge composting, playground padding, and mulch.

2. Bole/Stem Pulp Chips:

produced in the woods by chipping the lower portion of the tree. These chips are not free of bark, but are suitable for use in pulp mills.

3. Cords (cbs):

a stack of fuel wood, pulpwood, or other material that measures 4 x 4 x 8 feet, or 128 cubic feet.

4. Construction and Demolition Waste (C and D Waste):

ground up wooden debris left over from construction and demolition that is burned by wood to energy facilities.

5. Firewood:

roundwood that is burned for home heating.

6. Hog Fuel:

any woody residue produced from mills, such as sawdust, bark or shavings, and used as energy fuel.

7. Pellets:

wood fuel generally made from dried wood fiber compressed into uniform diameter for burning.

8. Pulpwood:

roundwood that is used for the production of wood pulp. Generally sold as tree length, 16', 8' or 4' len

9. Sawlogs:

a log that meets minimum standards of diameter, length, and defect, intended for sawing into boards or lumber. Includes sawlogs, studwood, pallet logs, boltwood, and veneer logs.


10. Sawmill residues:


clean, pulp-quality chips made from debarked slabs and edgings at sawmills. Used by pulp and paper mills to produce wood pulp.


11. Thousand Board Feet (MBF):


One thousand board feet. One board foot is the amount of wood contained in an unfinished board 1" thick, 12" long, and 12" wide.


Report Highlights

 Maine's forest products industry consumed 14.6 million green ton equivalents in 2012, up from 14.5 million green ton equivalents in 2011. Seventy-seven percent of the supply (11.3 million green ton equivalents) was harvested in Maine, while 23% (3.3 million green ton equivalents) was imported.

 Maine landowners harvested 13.5 million green ton equivalents of wood in 2012, the same as 2011 (13.5 million green ton equivalents). Sixteen percent (2.2 million green ton equivalents) of the 2012 harvest was exported, up from 2011 (2.0 million green ton equivalents).

 Maine's pulp and paper producers processed 8.4 million green tons of pulpwood, down .6 million tons (7%) from 2011 consumption. Seventy-one percent of the pulpwood originated from Maine's forests; 29% was imported.

 Biomass harvesting volume was 2.4 million tons in 2012, same as 2011 (2.4 million tons). Biomass energy facilities consumed 2.6 million tons in 2012, up 7% from 2011 (2.5 million tons). Eighty-five percent originated from Maine's forests; 15% was imported.

 Maine's sawlog processing in 2012 was 0.7 billion board feet, up slightly from 2011 (0.6 billion board feet).

 Maine's forest products industry imported 3.3 million green tons during 2012, compared to 3.0 million tons in 2011. 2.2 million green tons were exported in 2012, compared to 2.0 million tons in 2011.

SAWLOGS

2012 Wood flow in Maine as reported to the Maine Forest Service (in MBF)

County	Spruce and Fir	White and Red Pine	Hemlock	Cedar	Other Softwood	Total Softwood	Beech	White Birch	Yellow Birch	Sugar Maple	Red Maple	Oak	Ash	Aspen	Other Hardwood	Total Hardwood	Total Sawlogs
ANDROSCOGGIN	2,803	8,788	391	4	0	11,986	61	155	624	482	316	570	385	26	9	2,628	14,614
AROOSTOOK	81,757	273	235	10,879	198	93,342	67	6,799	6,964	4,887	2,826	18	221	44,168	340	66,290	159,632
CUMBERLAND	1,497	15,481	1,859	0	1	18,838	125	57	107	33	193	310	52	32	2	911	19,749
FRANKLIN	17,528	5,149	168	10	7	22,862	325	1,980	1,033	2,807	899	1,001	689	94	1,457	10,285	33,147
HANCOCK	13,061	3,019	85	316	0	16,481	2	870	227	549	322	250	183	29	774	3,206	19,687
KENNEBEC	1,182	17,959	1,790	5	110	21,046	255	894	246	468	208	1,077	240	57	19	3,464	24,510
KNOX	254	2,975	408	8	0	3,645	0	32	110	242	163	887	77	3	0	1,514	5,159
LINCOLN	422	7,557	1,058	7	0	9,044	6	72	30	53	48	170	57	9	2	447	9,491
OXFORD	14,489	33,581	1,525	1	4	49,600	575	1,892	807	2,423	827	2,476	1,130	117	732	10,979	60,579
PENOBSCOT	49,039	9,319	15,838	3,182	2	77,380	53	2,704	1,657	3,637	364	352	604	269	579	10,219	87,599
PISCATAQUIS	26,442	3,427	1,284	188	49	31,390	720	2,278	3,055	6,067	1,830	905	1,055	15	430	16,355	47,745
SAGADAHOC	90	2,630	240	1	0	2,961	12	2	3	3	16	48	8	2	0	94	3,055
SOMERSET	36,216	12,580	443	394	53	49,686	1,233	3,474	4,457	7,715	1,379	3,266	1,361	59	918	23,862	73,548
WALDO	2,063	6,774	782	181	2	9,802	53	435	129	257	215	1,109	275	288	4	2,765	12,567
WASHINGTON	19,110	1,306	80	540	76	21,112	33	213	223	453	177	292	83	23	625	2,122	23,234
YORK	52	18,451	1,430	0	0	19,933	170	34	15	25	492	1,304	33	2	0	2,075	22,008
Maine wood processed:	266,005	149,269	27,616	15,716	502	459,108	3,690	21,891	19,687	30,101	10,275	14,035	6,453	45,193	5,891	157,216	616,324
Exported from Maine without processing:	212,356	30,170	408	11,126	16	254,076	1,682	1,136	10,919	13,678	3,974	17,024	2,538	448	1,266	52,665	306,741
Total harvested from Maine forests:	478,361	179,439	28,024	26,842	518	713,184	5,372	23,027	30,606	43,779	14,249	31,059	8,991	45,641	7,157	209,881	923,065
Imported from out of state:	4,307	47,579	913	561	0	53,360	299	8,123	2,676	3,252	3,560	489	65	32,912	15	51,391	104,751
Total processed by Maine Forest Products Industry:	270,312	196,848	28,529	16,277	502	512,468	3,989	30,014	22,363	33,353	13,835	14,524	6,518	78,105	5,906	208,607	721,075

- Notes:**
1. Sawlogs include logs, veneer, boltwood, studwood, palletwood, etc. Green ton converted to MBF @ 5 green tons = 1 MBF.
 2. Other Softwood includes larch, pitch pine, and others.

PULPWOOD

2012 Wood flow in Maine as reported to the Maine Forest Service (in Green Tons), including both solid wood and bole/stem pulp chips (Totals do not add up due to rounding)

County	Spruce and Fir	White and Red Pine	Hemlock	Cedar	Other Softwood	Total Softwood	Aspen	Other Hardwood	Total Hardwood	Mixed Wood	Total Pulpwood
ANDROSCOGGIN	606	31,518	17,292	0	6,776	56,192	5,589	52,664	58,253	0	114,445
AROOSTOOK	72,861	892	36,386	0	443	110,582	46,240	610,809	657,049	0	767,631
CUMBERLAND	708	76,874	35,829	0	6,803	120,214	3,670	55,349	59,019	0	179,233
FRANKLIN	50,867	12,489	21,862	0	3,577	88,795	52,685	273,978	326,663	0	415,458
HANCOCK	70,807	11,977	29,986	0	2,962	115,732	18,999	42,994	61,993	0	177,725
KENNEBEC	10,123	37,291	32,400	0	8,238	88,052	16,333	68,664	84,997	0	173,049
KNOX	11,211	7,089	3,340	0	947	22,587	3,139	17,413	20,552	0	43,139
LINCOLN	5,415	28,154	12,220	0	4,329	50,118	4,533	26,311	30,844	0	80,962
OXFORD	46,194	229,341	15,023	0	13,195	303,753	32,059	460,104	492,163	0	795,916
PENOBSCOT	201,988	18,648	243,253	0	2,817	466,706	68,392	577,995	646,387	0	1,113,093
PISCATAQUIS	108,853	17,616	22,693	0	1,031	150,193	39,867	415,918	455,785	0	605,978
SAGadahoc	447	10,202	11,616	0	2,582	24,847	2,206	8,886	11,092	0	35,939
SOMERSET	132,566	61,126	48,307	0	7,262	249,261	55,835	629,756	685,591	0	934,852
WALDO	20,940	37,411	9,607	0	1,365	69,323	11,314	50,976	62,290	0	131,613
WASHINGTON	124,706	21,594	57,579	0	3,067	206,946	17,465	44,830	62,295	0	269,241
YORK	14,782	59,597	10,314	0	4,579	89,272	4,879	37,760	42,639	0	131,911
Maine wood processed:	873,074	661,819	607,707	0	69,973	2,212,573	383,205	3,374,407	3,757,612	0	5,970,185
Exported from Maine without processing:	206,004	23,678	4,766	0	28,615	263,063	47,847	430,697	478,544	0	741,607
Total harvested from Maine forests:	1,079,078	685,497	612,473	0	98,588	2,475,636	431,052	3,805,104	4,236,156	0	6,711,792
Imported from out of state:	218,828	329,202	149,142	0	43,040	740,212	170,331	1,545,108	1,715,439	0	2,455,651
Total processed by Maine Forest Products Industry:	1,091,902	991,021	756,849	0	113,013	2,952,785	553,536	4,919,515	5,473,051	0	8,425,836

SAWMILL RESIDUE Green Tons
10,081
59,547
312
56,438
10,184
0
0
1,304
0
42,932
154,730
0
22,295
9,687
127
3,377
371,014
191,992
563,006
246,926
617,940

Sawmill residues are clean, pulp-quality wood chips made from slabs and edgings at sawmills. The volume is reported here as an additional input to the pulp and paper mills and pellet mills. Sawmill residues are a by-product of the sawing process, and are not included as additional harvest volumes from Maine's forests.

Pulpwood Notes:

1. Other Softwood is comprised of bole chips of which specific species information was not collected.
2. Aspen volumes are based upon pure loads.
3. Other Hardwood is comprised of all hardwood species except aspen sold in pure loads.

2012 Wood Flow in Maine as reported to the Maine Forest Service (in Green Tons)

County	BIOMASS CHIPS	Further utilization of wood already tallied.	C AND D WASTE	FIREWOOD / PELLET* CORDS
		HOG FUEL		
Androscoggin	167,081	32,899	28,504	4,556
Aroostook	250,935	144,868	0	10,128
Cumberland	109,348	18,308	9,382	1,907
Franklin	188,057	89,139	244	21,975
Hancock	112,586	5,613	0	2,803
Kennebec	110,974	6,334	2,461	3,574
Knox	39,584	609	66	624
Lincoln	51,035	2,532	2,697	2,586
Oxford	135,935	132,321	684	13,493
Penobscot	335,127	105,364	899	12,003
Piscataquis	114,830	77,898	959	17,916
Sagadahoc	14,001	639	602	434
Somerset	222,478	92,896	194	33,660
Statewide*	0	0	0	6,769
Waldo	92,620	12,432	0	7,344
Washington	148,999	6,889	0	2,622
York	141,495	14,129	4,398	3,542
Maine wood processed:	2,235,085	742,870	51,090	145,936
Exported from Maine without processing:	120,049	146,341	0	0
Total harvested from Maine Forests:	2,355,134	889,211	51,090	145,936
Imported from out of state:	380,846	465,666	64,498	215
Total processed by Maine Forest Products Industry:	2,615,931	1,208,536	115,588	146,151

*Volumes reported with no indication of originating county were identified as Statewide volume.

Wood Imports and Exports

<u>Import Origins</u>	<u>Export Destinations</u>
States:	States:
Connecticut	Massachusetts
Massachusetts	Michigan
New Hampshire	New Hampshire
New York	New York
Rhode Island	Rhode Island
Vermont	Vermont
Provinces:	Provinces:
New Brunswick	New Brunswick
Nova Scotia	Quebec
Ontario	Countries:
Quebec	China
	France
	Thailand

* This is the fifth Wood Processor Report to separately report firewood as a new product. Report forms were sent to known firewood dealers. In the past some firewood was uniquely identified and reported to MFS as an export, and MFS grouped these minor volumes into the pulpwood product. This by no means a complete accounting of the volume of processed firewood merchandized, sold, or distributed within Maine, or as an export or import. The only previous estimation of annual firewood consumption is a survey conducted by the State Planning Office in the early 1990's. That survey estimated an annual processing, sale, distribution and consumption of 400,000 cords. MFS will continue to improve its survey methods in order to obtain a consistent and reliable estimate of annual firewood processing.

In addition, this is the fifth year we have received reports from Maine's pellet mills. We have included reported volumes for pellet production under this section also.

SUMMARY

2012 Wood flow in Maine as reported to the Maine Forest Service

Product	Harvest, Export, Import, Instate Processing	Total Volume in 2012	Total Volume in Green Tons
Sawlogs (in MBF) 1 MBF = 1,000 board feet <i>Note on conversions: see conversion table at the end of report</i>	a. Maine wood processed	616,324	2,708,554
	b. Exported from Maine without processing	306,741	1,336,988
	c. Total harvested from Maine forests (a+b=c)	923,065	4,045,542
	d. Imported from out of state	104,751	459,435
	f. Total processed by Maine Forest Products Industry (a+d=e)	721,075	3,167,989
	<hr/>		
Pulpwood (in green tons)	a. Maine wood processed	5,970,185	5,970,185
	b. Exported from Maine without processing	741,607	741,607
	c. Total harvested from Maine forests (a+b=c)	6,711,792	6,711,792
	d. Imported from out of state	2,455,651	2,455,651
	f. Total processed by Maine Forest Products Industry (a+d=e)	8,425,836	8,425,836
	<hr/>		
Biomass Chips (in green tons)	a. Maine wood processed	2,235,085	2,235,085
	b. Exported from Maine without processing	120,049	120,049
	c. Total harvested from Maine forests (a+b=c)	2,355,134	2,355,134
	d. Imported from out of state	380,846	380,846
	f. Total processed by Maine Forest Products Industry (a+d=e)	2,615,931	2,615,931
	<hr/>		
Firewood / Pellets (in cords) <i>Note on conversion: 1 cord = 2.5 green tons</i>	a. Maine wood processed	145,936	364,840
	b. Exported from Maine without processing	0	0
	c. Total harvested from Maine forests (a+b=c)	145,936	364,840
	d. Imported from out of state	215	538
	f. Total processed by Maine Forest Products Industry (a+d=e)	146,151	365,378
	<hr/>		
Totals (in green tons)	a. Maine wood processed		11,278,664
	b. Exported from Maine without processing		2,198,644
	c. Total harvested from Maine forests (a+b=c)		13,477,308
	d. Imported from out of state		3,296,469
	f. Total processed by Maine Forest Products Industry (a+d=e)		14,575,133

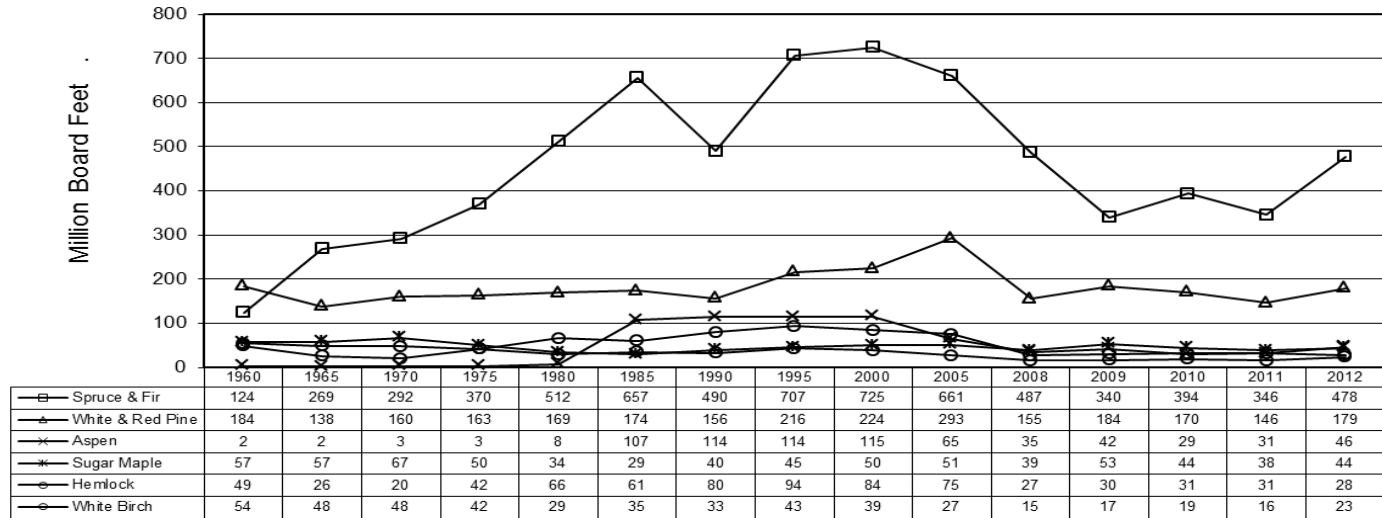
Wood Harvesting Trends (1960-2012)

The Maine Forest Service has been collecting data on volume of wood harvested since the late 1940's. The following three charts illustrate wood harvesting trends over the past 50 years.

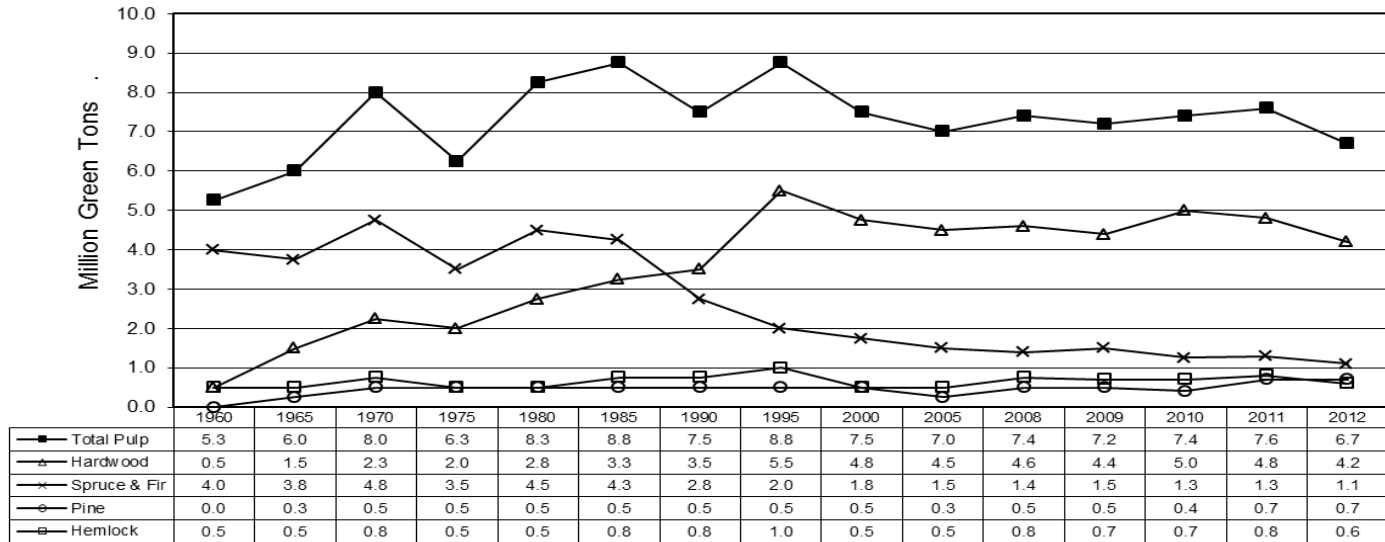
The two graphs to the right show the harvest volumes for selected species for sawlogs and pulpwood. These volumes include exported volumes.



Harvest Levels of Selected Species for Sawlogs in Maine (1960 to 2012)



Harvest Levels of Selected Species for Pulpwood in Maine (1960 to 2012)

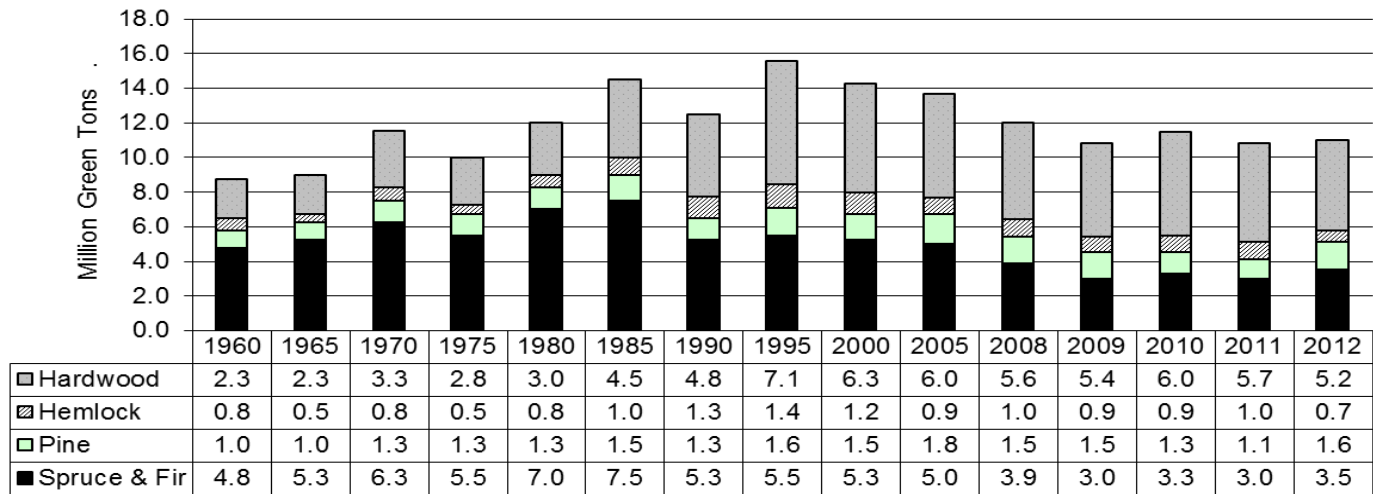


Wood Harvesting Trends (1960-2012)

The graph to the right shows the volumes for commercially important species.



Harvest Commercially Important Species in Maine (1960 - 2012)

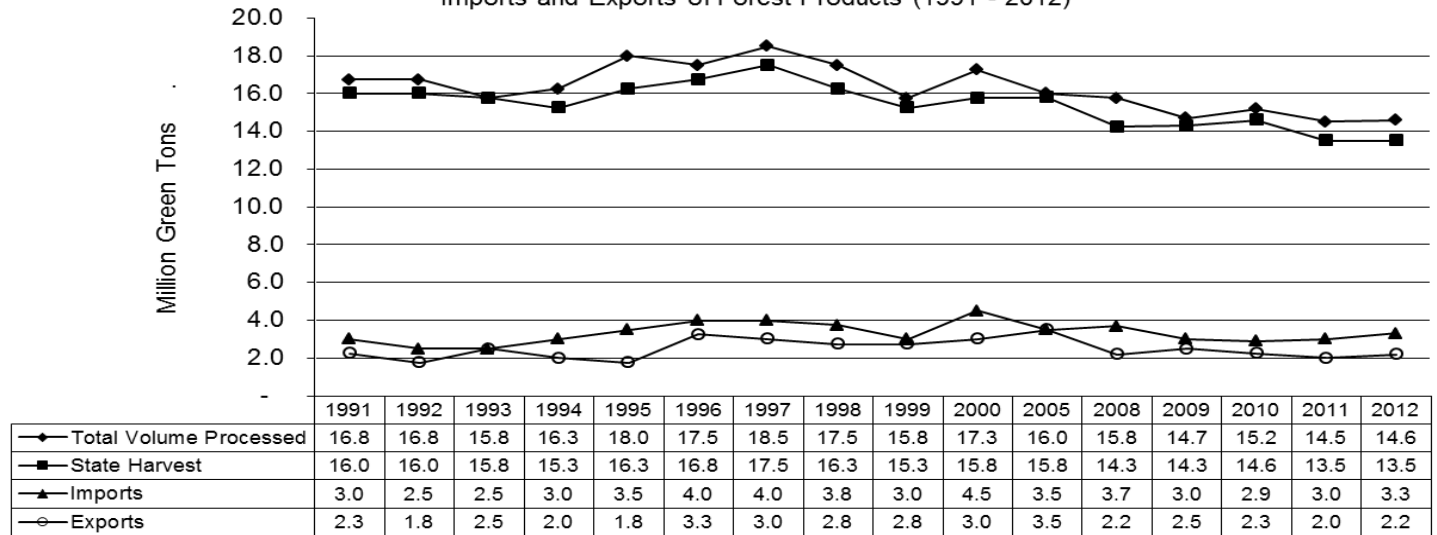


Import and Export Trends (1990-2012)

The graph to the right shows the volumes of forest products being exported from Maine, imported into Maine, and processed within



Imports and Exports of Forest Products (1991 - 2012)



**Conversion Table
MBF/Weight Equivalents
for various Maine Commercial Tree Species**

These conversions are used by the Maine Forest Service.

Users of this report may wish to confirm the conversion rate(s) used by individual mills and/or contractors who purchase wood.

<u>Species</u>	<u>MBF</u>	<u>Tons</u>
Spruce Fir	1	4.2
White Pine	1	4.3
Red Pine	1	4.3
Hemlock	1	4.8
Cedar	1	3.4
Tamarack (Larch)	1	4.8
Beech	1	4.5
White Birch	1	4.5
Yellow Birch	1	5.4
Sugar Maple	1	5.4
Red Maple	1	4.5
White Oak	1	5.4
Red Oak	1	5.4
Ash	1	4.5
Aspen/Poplar	1	4.3
Softwood	1	4.6
Hardwood	1	5.4
Mixed Wood	1	4.6

For purposes of comparing volumes, a rough conversion of 1 MBF = 2 cords is commonly used.

These conversions factors are handy for making estimates and for forest inventory purposes, but are advisory only. The weight of a particular volume of wood varies greatly by species, time of year and other factors.

It is illegal in Maine to convert from one system of measurement to another for the basis of payment (e.g. convert a mill payment for pulpwood in dollars per ton to a landowner payment in dollars per cord).



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Maine Forest Service District Foresters

The Maine Forest Service has 10 District Foresters who provide technical assistance and educational services to landowners, loggers, schools and educational institutions, municipalities and other stakeholders. District Foresters conduct educational workshops, field demonstrations, media presentations, and can provide limited one-on-one contact with individual landowners.

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